

IN THE CLAIMS

The pending claims are as follows:

1. (Previously Presented) A diversity receiver comprising multiple antenna receiving branches, each of said multiple antenna receiving branches comprising estimating means for estimating at least a receiving channel parameter, wherein a first estimating means in one branch of the multiple antenna receiving branches is operatively connected to a second estimating means in a further branch of the multiple antenna receiving branches for using at least a part of the channel parameter estimate in the one branch as an aid for estimating at least a receiving channel parameter in the further branch.
2. (Previously Presented) The diversity receiver as claimed in claim 1, wherein the channel parameter estimate in the one branch is used as a starting point for the channel parameter estimate in the further branch.
3. (Previously Presented) The diversity receiver as claimed in claim 1, wherein the channel parameter estimate in the one branch provides a coarse channel parameter estimate, and wherein said coarse channel parameter estimate is used as a start for the channel parameter estimate in the further branch.

4. (Previously Presented) The diversity receiver as claimed in claim 1, wherein the second estimating means in the further branch is operatively connected to the first estimating means in said one branch for using at least a part of the channel parameter estimate in the further branch as an aid for estimating the receiving parameter channel in said one branch.

5. (Previously Presented) The diversity receiver as claimed in claim 1, wherein the diversity receiver has two antenna receiving branches.

6. (Previously Presented) The diversity receiver as claimed in claim 1, wherein the diversity receiver is arranged for estimating a time delay between the appearance of a certain channel parameter estimate in the various branches.

7. (Previously Presented) A mobile radio communication device provided with the diversity receiver as claimed in claim 1.

8. (Previously Presented) A method for receiving a signal comprising the acts of:

receiving the signal through multiple antenna receiving branches;

in each branch, estimating, using estimating means, parameters about a received channel to form channel estimation results;

exchanging the channel estimation results between a first branch of the multiple antenna receiving branches and a second branch of the multiple antenna receiving branches; and

using first channel estimation results about a first received channel from the first branch in the estimating means in the second branch as an aid for estimating parameters about a second received channel in the second branch and forming second channel estimation results.

9. (Cancelled).

10. (Previously Presented) The method of claim 8, wherein said method further comprises the acts of:

estimating a delay value between a first channel parameter in the first branch and the first channel parameter in the second branch; and

synchronizing estimation in the branches by using the delay value.